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5. (Amended) The microcatheter system of any one of claims 1 through 3, wherein the microcatheter system comprises a flexible cannula for insertion into a retinal vein lumen, the flexible cannula having a proximal end and a distal end and the distal end is sharp and rigid for puncturing the retinal vein lumen.
6. (Amended) The microcatheter system of claim 5, wherein the distal end has a beveled ramp-like shape.
- A₁ 7. (Amended) The microcatheter system of claim 6, wherein the ramp-like distal end forms an angle of about 30°.
8. (Amended) The microcatheter system of any one of claims 1 through 3, wherein the flexible cannula is fabricated of polyimide.
9. (Amended) The microcatheter system of any one of claims 1 through 3, wherein the flexible cannula has an outer diameter less than about 100 μ m.
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- A₂ 12. (Amended) The microcatheter system of any one of claims 1 through 3, further comprising a second cannula having a larger diameter than the flexible cannula.
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- A₃ 19. (Amended) The microcatheter system of claim 12, further comprising a modified microcannula system in which the flexible cannula and second cannula are mounted.
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- A₄ 24. (Amended) The microcatheter system of any one of claims 1 through 3, wherein the flexible cannula is illuminated for enhanced visibility.
25. [Amended] The microcatheter system of any one of claims 1 through 3 wherein the microcatheter system or flexible cannula remains within the retinal vein during

the infusion without an external holding device for a period of time of at least 5 minutes.

34. (Amended) A medical device kit, comprising one or more of the microcatheter systems of any one of claims 1 through 3.

40. (Amended) The method of claim 39, wherein solution is infused at a flow rate of at least about 0.2 cc/min.

41. (Amended) The method of claim 39, further comprising inserting a metal cannula into an incision in the eye prior to inserting the microcatheter system into the eye, whereby the microcatheter system is inserted into the eye through the metal cannula.

43. (Amended) The method of claim 39, further comprising the step of making four sclerotomies in the eye, whereby two microforceps are inserted in two of the sclerotomies and the microcatheter system is inserted into the eye through the fourth sclerotomy.

46. (Amended). The method of claim 43, further comprising the steps of passing the microcatheter system back and forth between the microforceps to position the microcatheter system so that the distal end of the flexible cannula is approximately parallel to the retinal vein

47. (Amended) The method of claim 39, wherein the microcatheter system further comprises a second cannula having a larger diameter than the flexible cannula, the second cannula having a proximal end and a distal end, whereby a portion of the flexible cannula is housed within the distal end of the second cannula.